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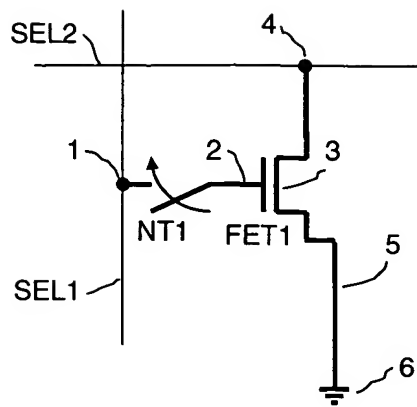


Figure 1A

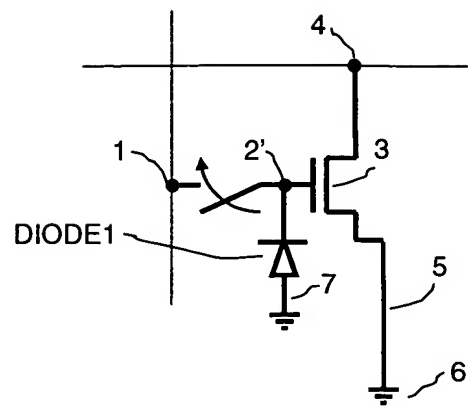


Figure 1B

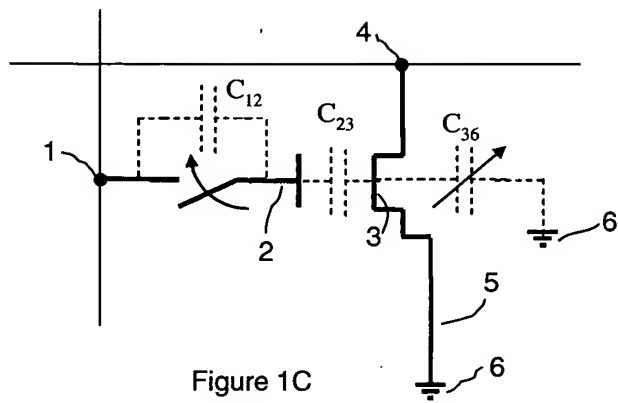


Figure 1C

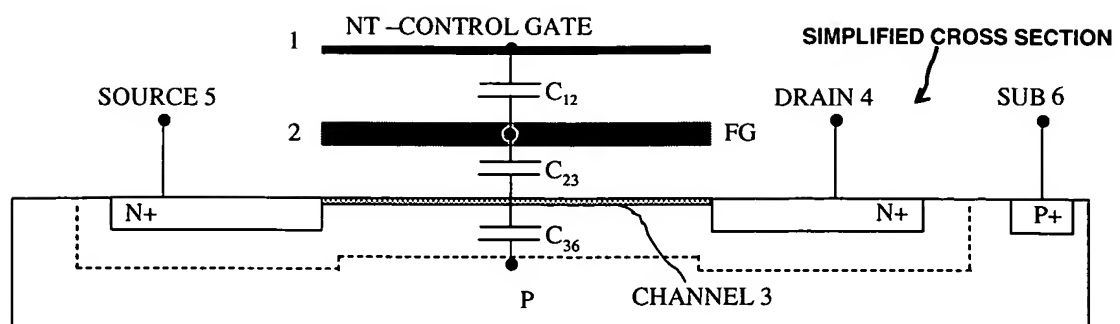
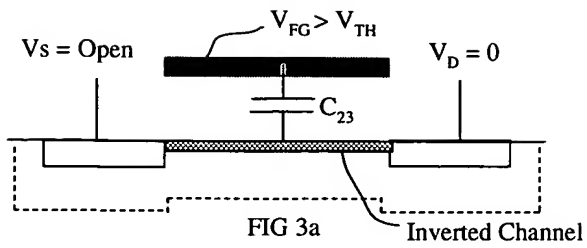


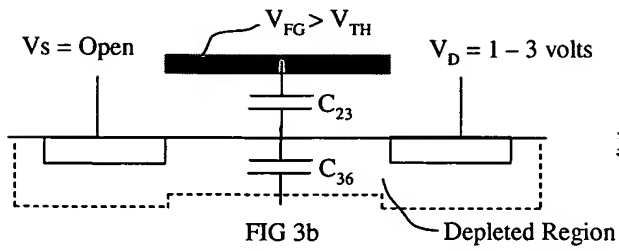
FIG 2



CHANNEL REGION MODULATION

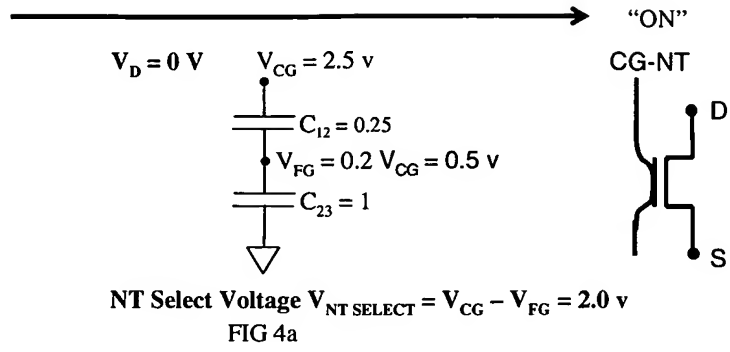
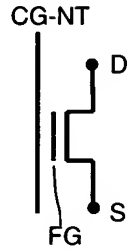


Inverted Channel: electrons at $V_D = 0$ volts

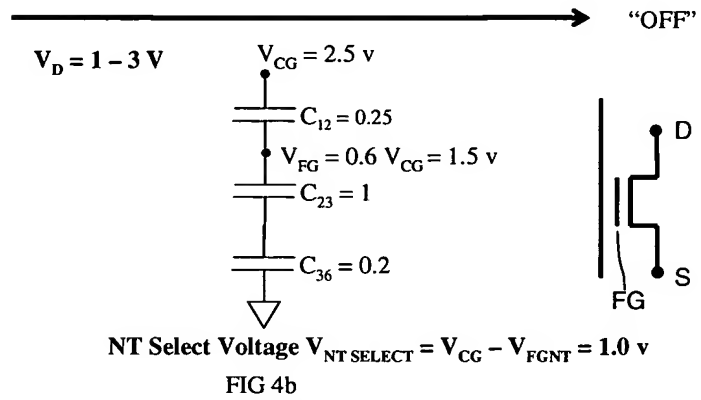
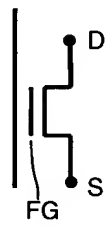


Depleted Channel: electrons flow to positive terminal

WRITE "1": "OFF"



WRITE "0": "OFF"



NET: NT SELECT (WRITE) VOLTAGE THRESHOLD RANGE $1.0 \text{ V} < V_{NT \text{ TH}} < 2.0 \text{ V}$

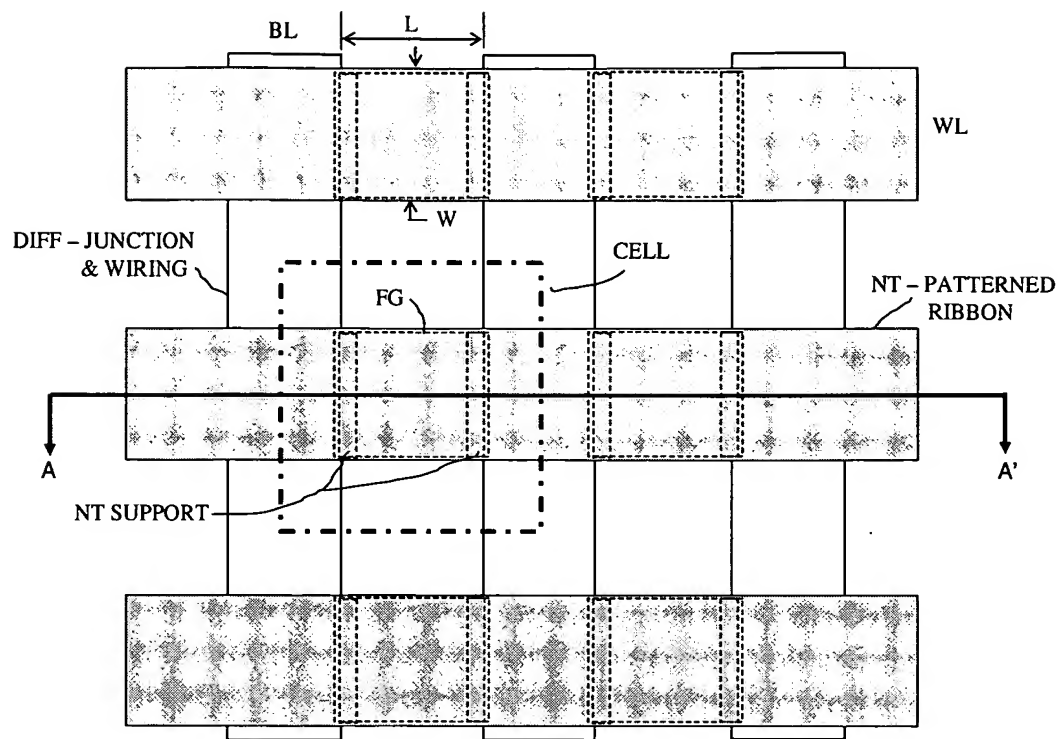
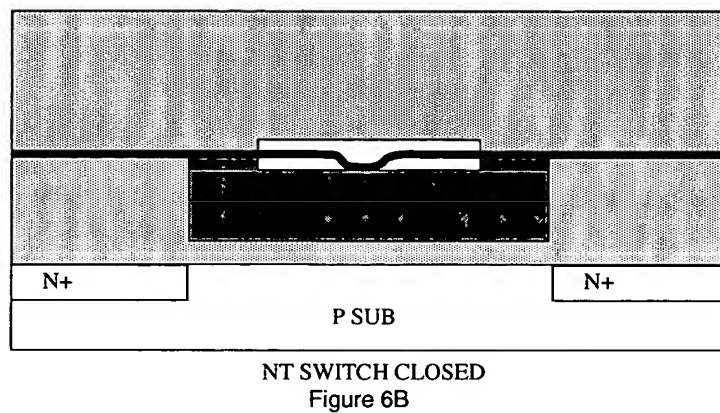
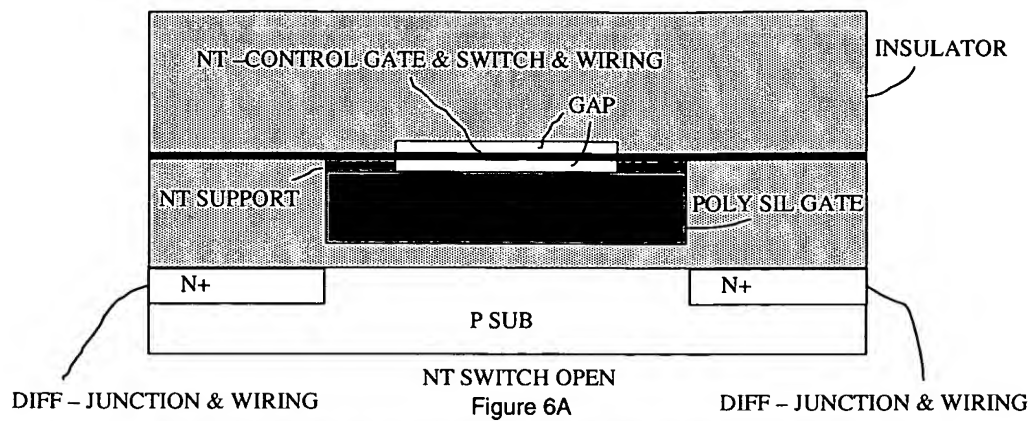
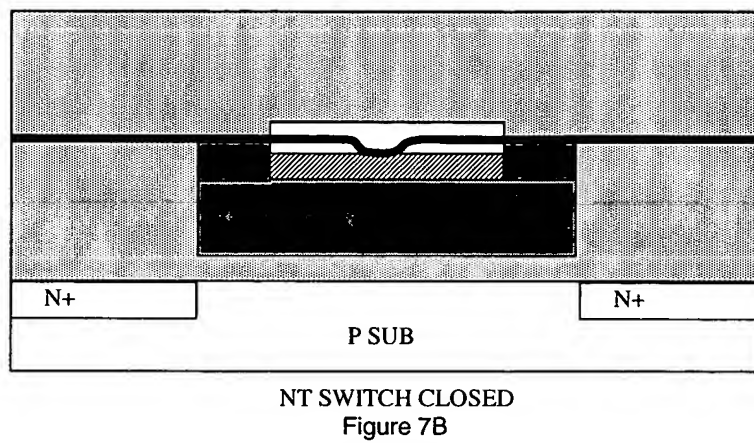
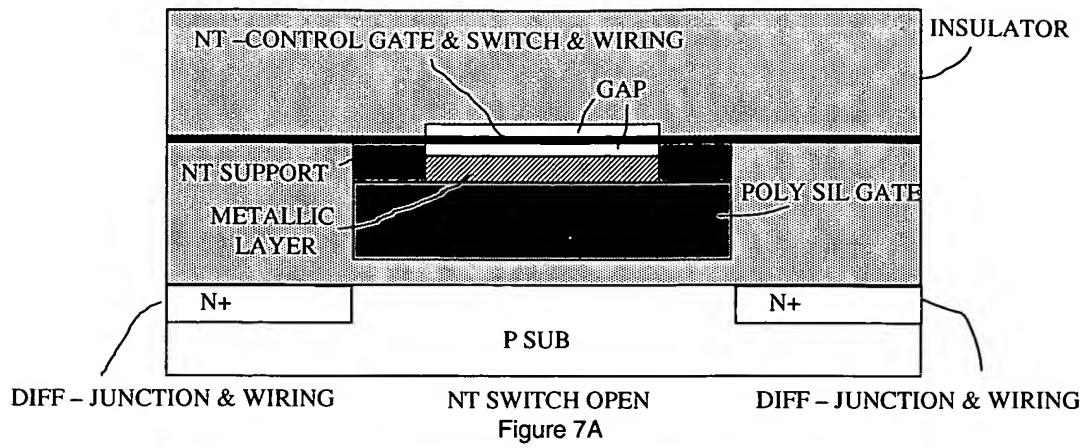
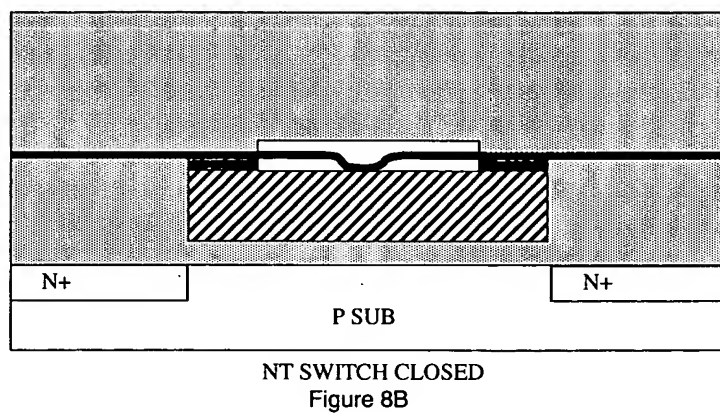
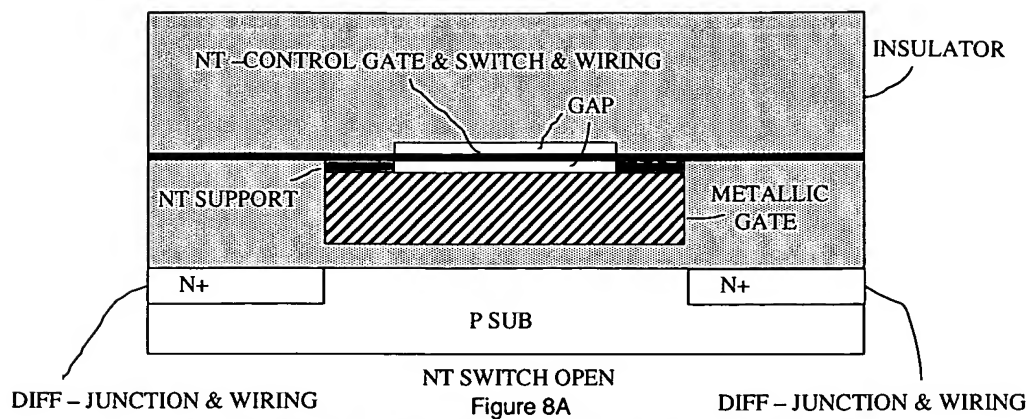


Figure 5







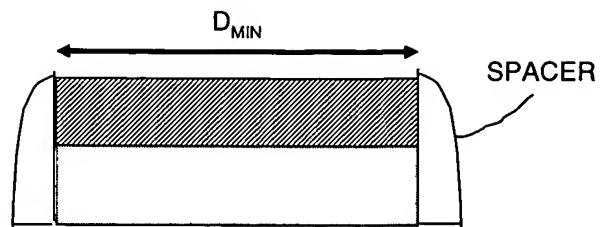


Figure 9A

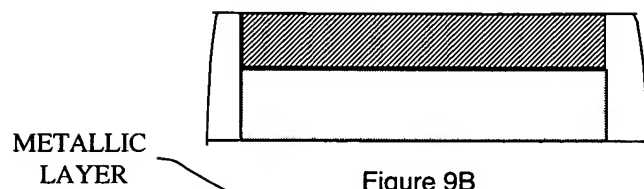


Figure 9B

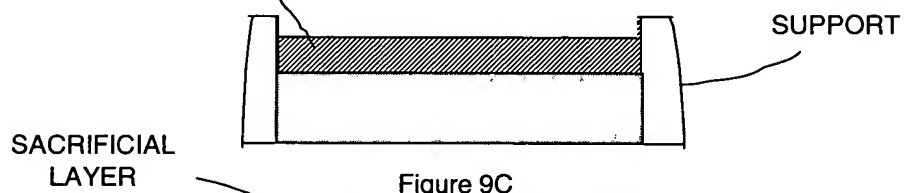


Figure 9C

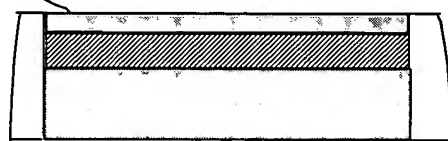


Figure 9D

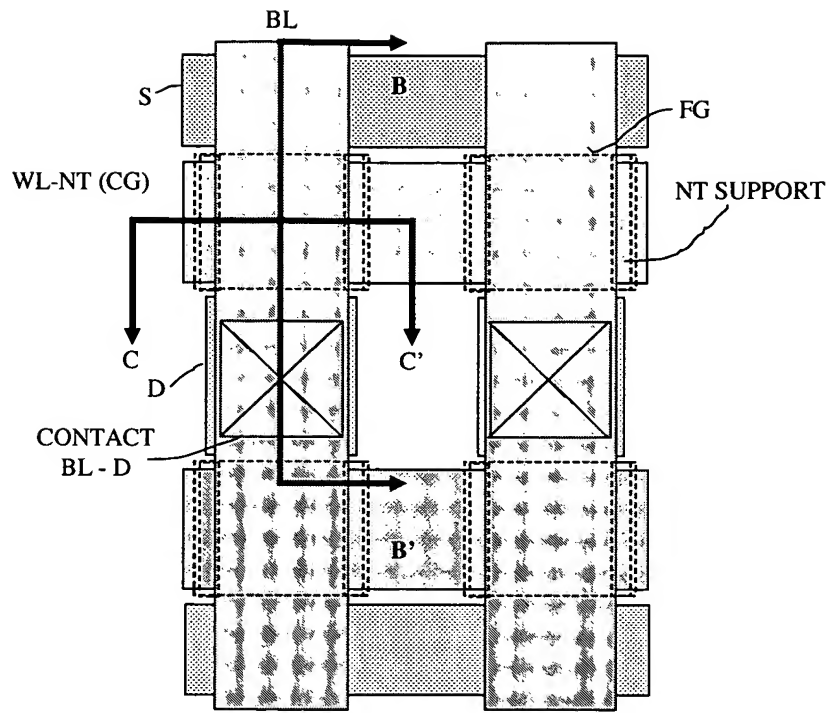


Figure 10

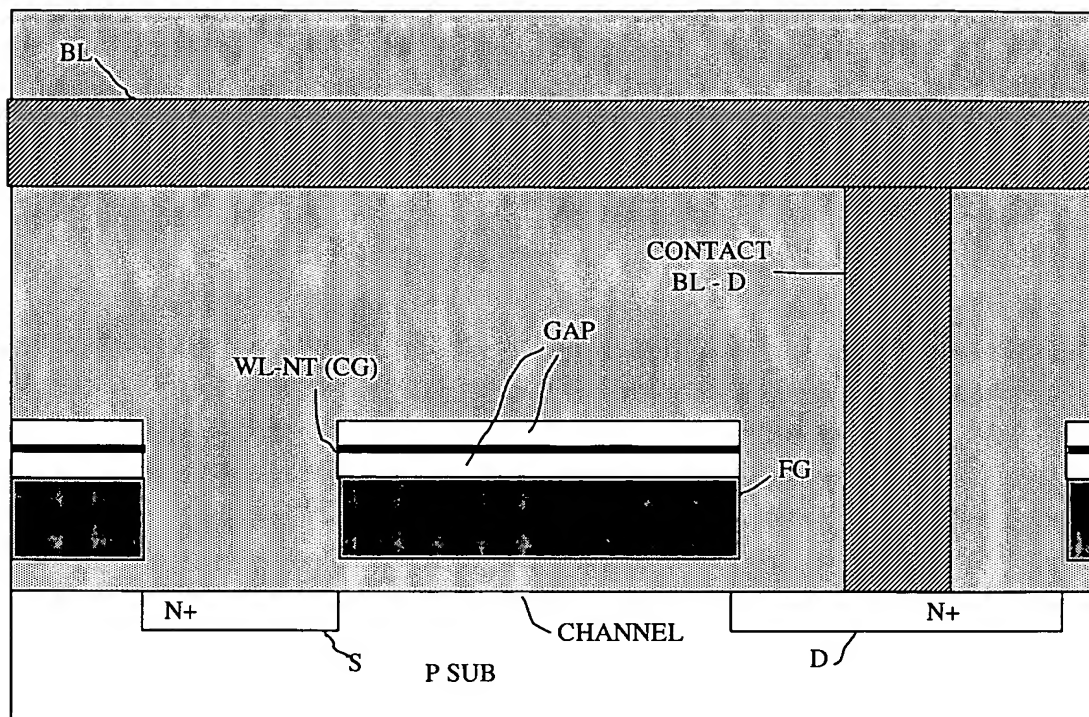


Figure 11

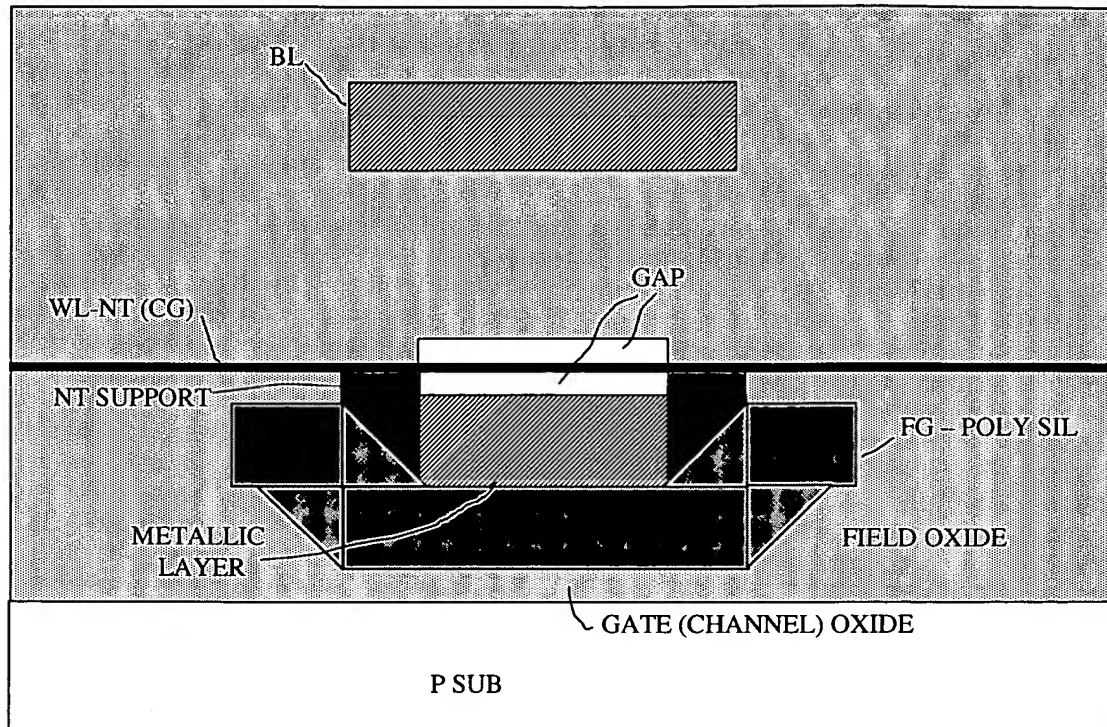


Figure 12

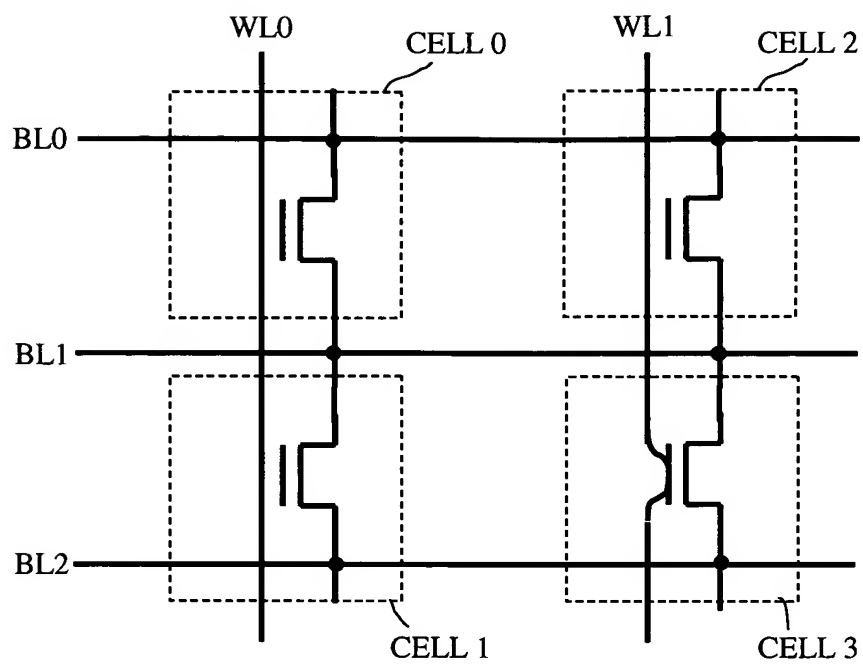


Figure 13

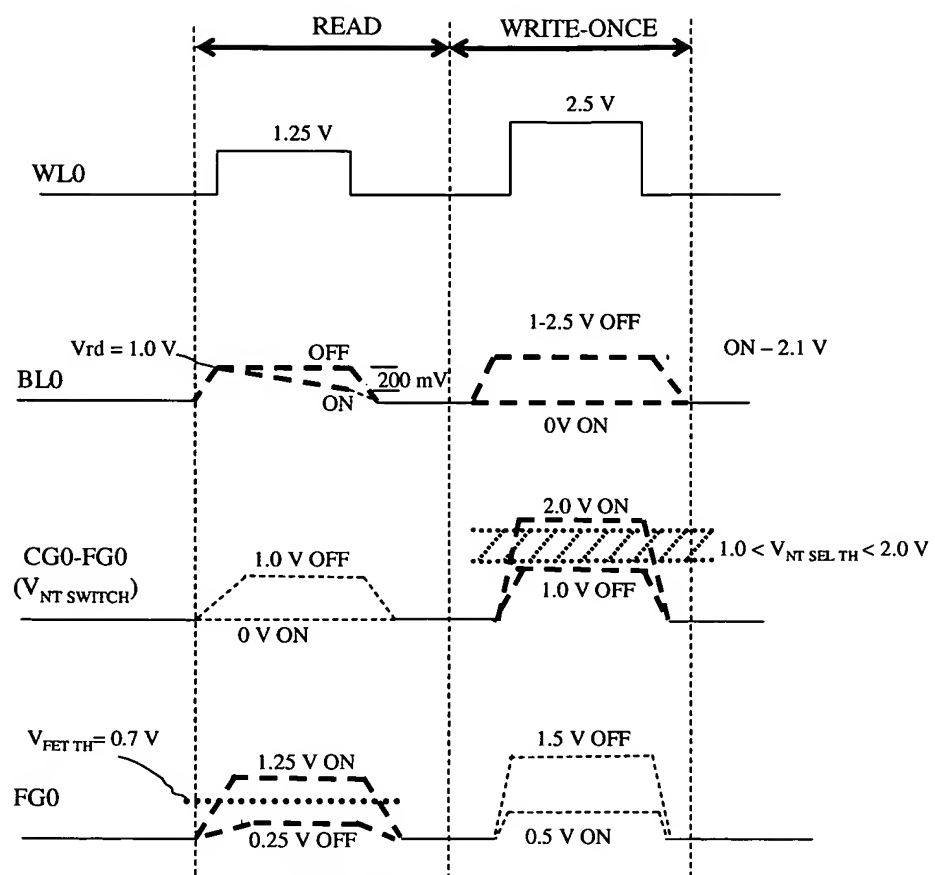


Figure 14

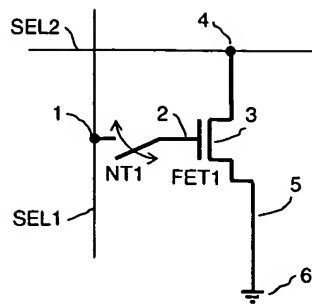


Figure 15A

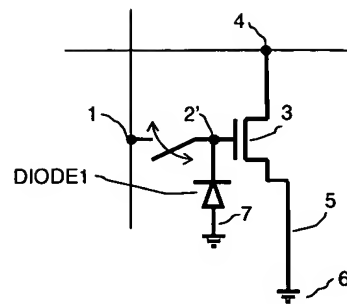


Figure 15B

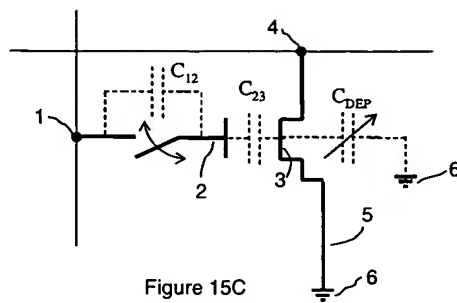


Figure 15C

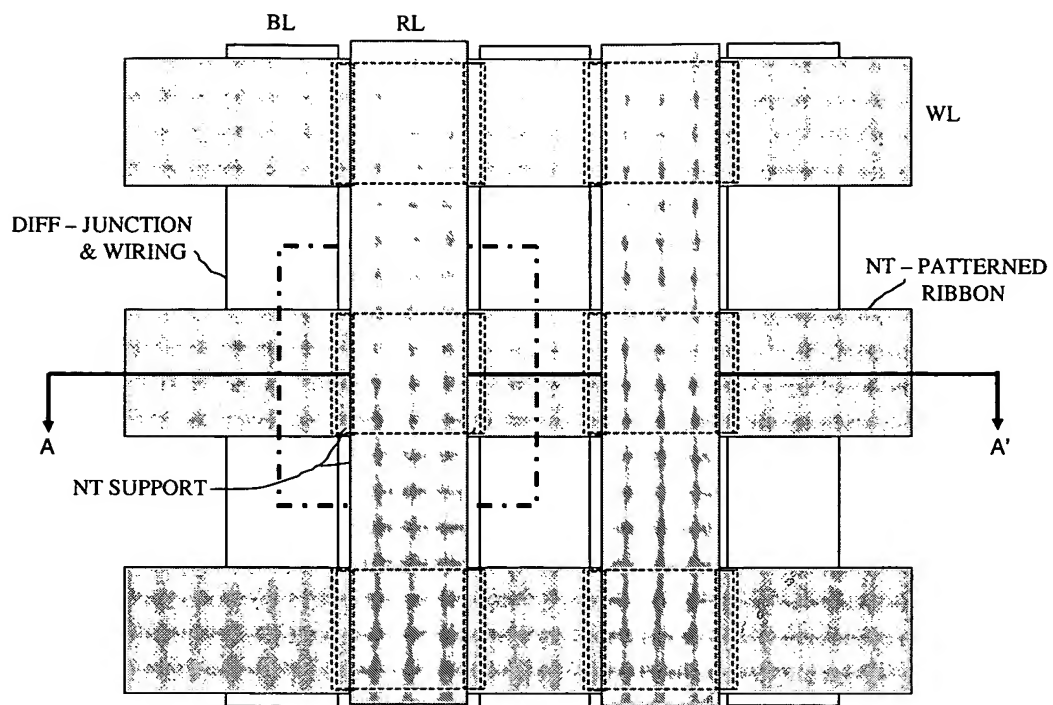
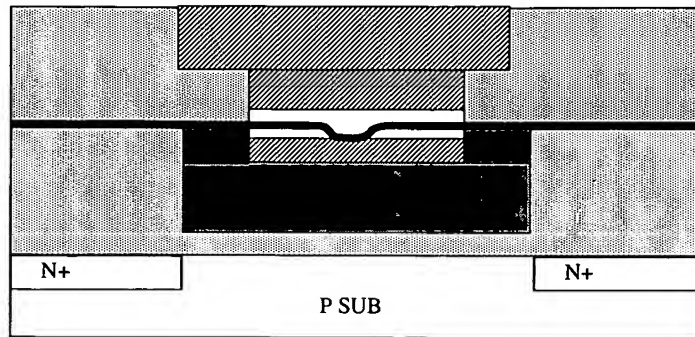
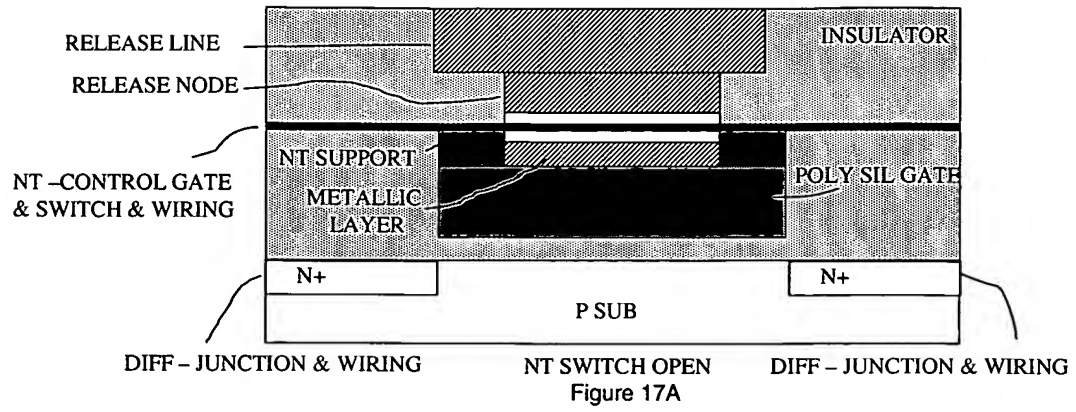


Figure 16



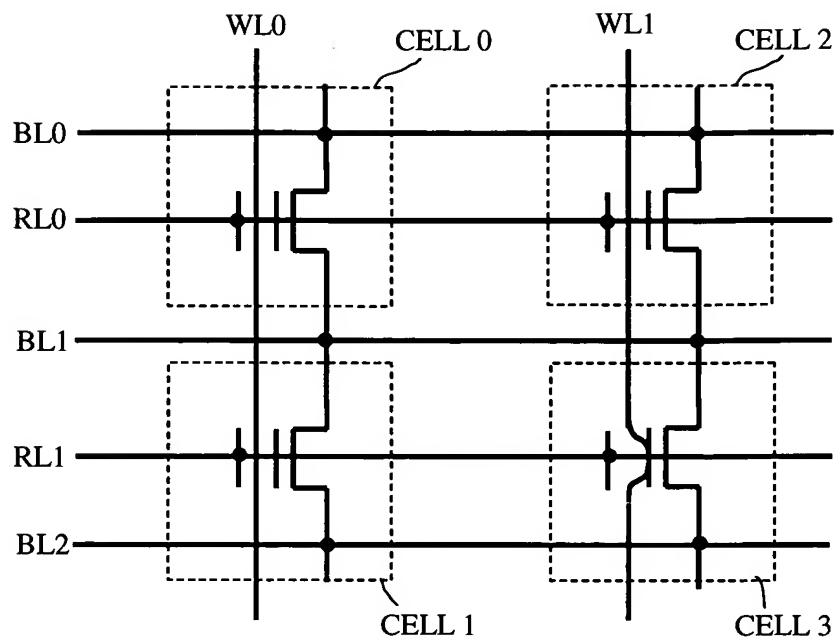


Figure 18

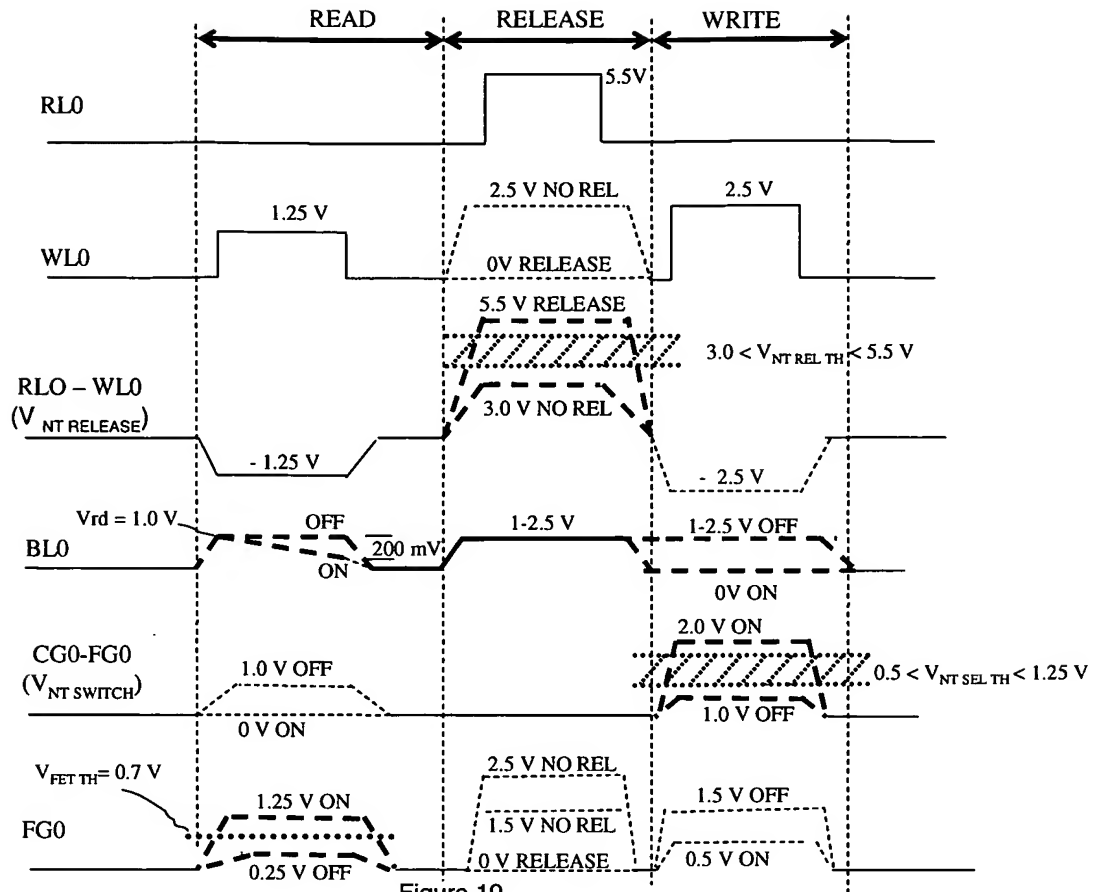


Figure 19

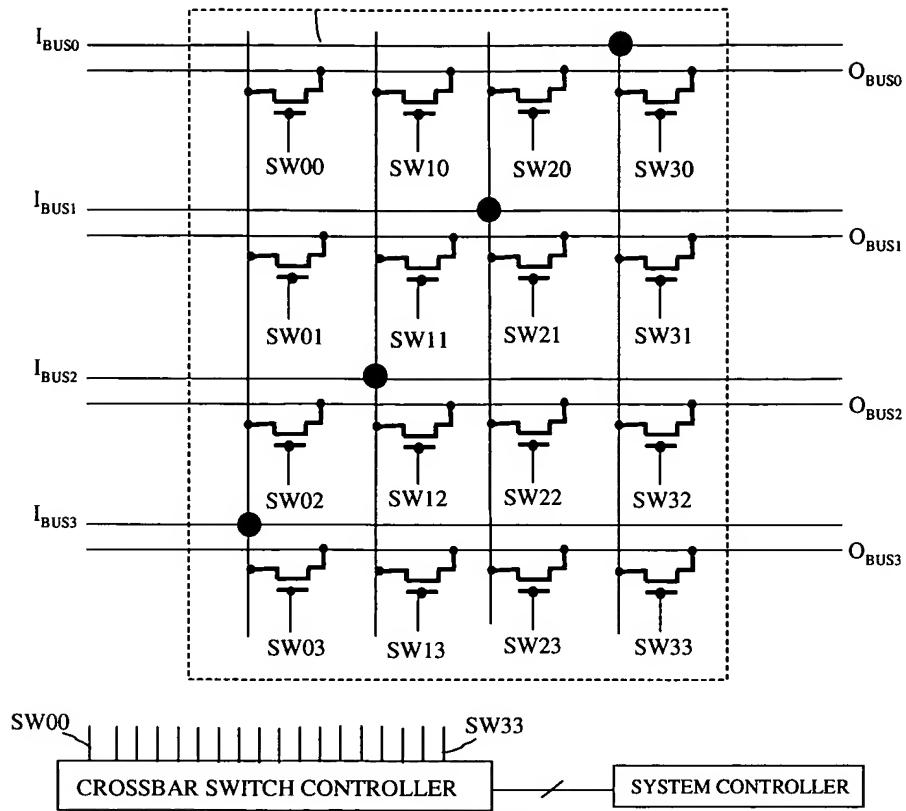


Figure 20

Prior Art

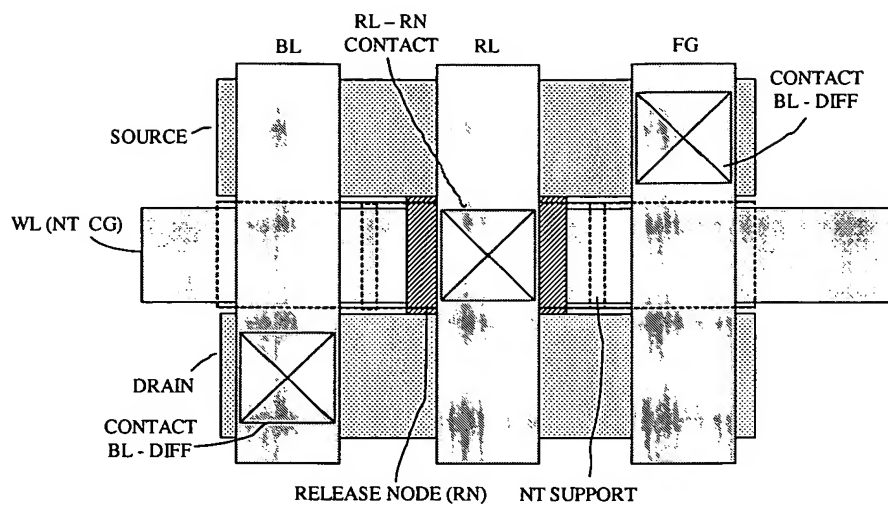


Figure 21

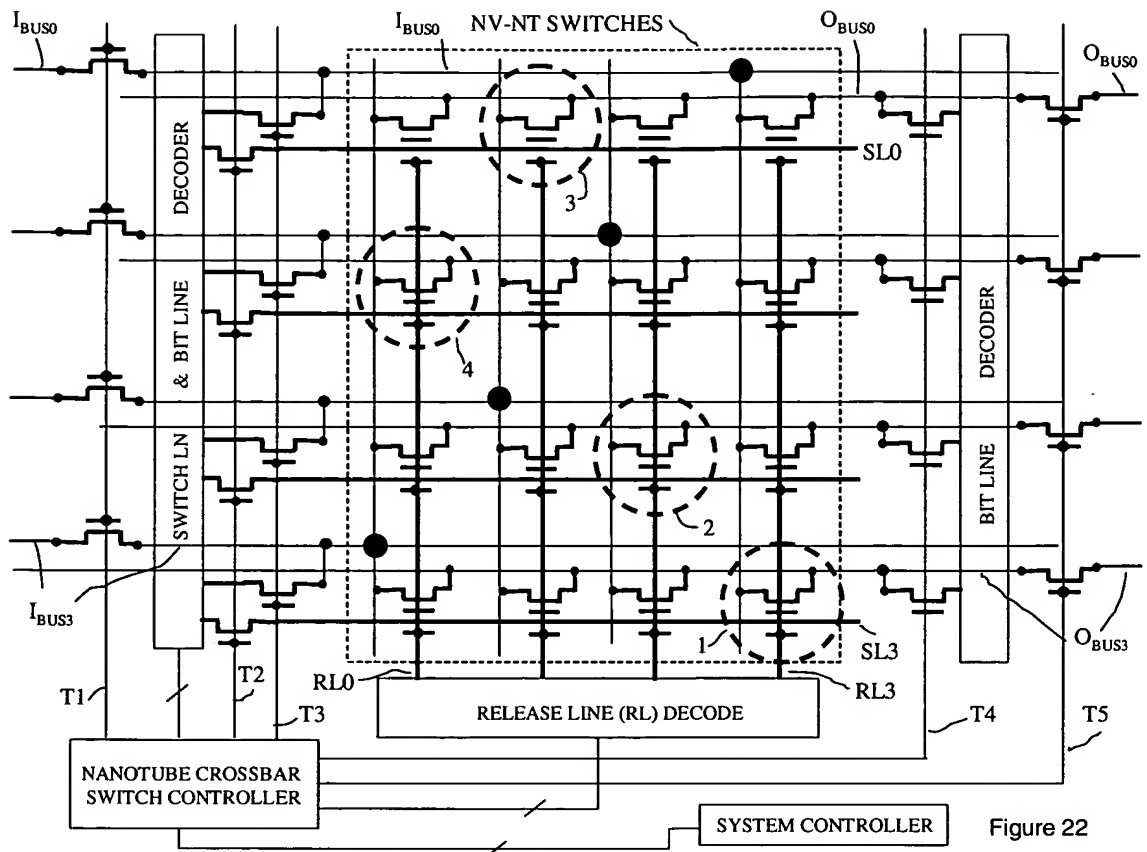


Figure 22